

HEIR WALKED SHAMES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS; SHALL COME;;

Royal Sluis, B. H.

Colhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CAULIFLOWER

'Vernon'

In Testimony Wilhercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 17th day of June in the year of our Lord one thousand nine hundred and eighty-two

In R Block Secretary of Agriculture





Cauliflower Twist

13.A Exhibit A: Origin and Breeding History.

Vernon JE7 820929 Madon JE4820302

Twist has been selected from a cross between Dok Elgon and a Florablanca type.

Through family selection, and line selection in a later stage, the current type has been achieved. Twist appears to be stable and uniform through multiplication.

No Variants. 184 820521

13.B Exhibit B: Novelty Statement.

Madon

Twist mostly resembles Dok Elgon. It differs from Dok Elgon in a better curd protection. Besides that: - Its margins are wary, while Dok Elgon's are straight; - Its leaves are also more petiolate, and larger than those of Dok Elgon. We measured the largest leaf per plant of 25 plants of each variety.

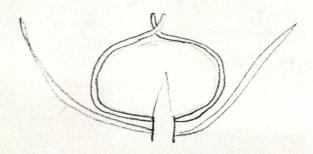
	length of leaves	width of leaves
Twist Madon	70 cm (S = 5)	33 cm (S = 2)
Dok Elgon	61 cm (S = 4,5)	30 cm (S = 1,7)

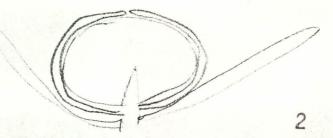
Curd diameter is 4 cm wider than Dok Elgon. We measured 25 curds with the following result:

	curd	diameter			
Twist Madon	22,3	cm,	S	=	1,8
Dok Elgon	7.00				

Vernon

Twist differs from any other variety in its curd protection. Its wrapper leaves are twisted together over the curd, protecting it very well until maturity. Its nature is best described in a drawing:









ROYAL SLUIS

KONINKLIJKE ZAAIZAADBEDRIJVEN GEBROEDERS SLUIS B.V.

USDA, AMS
Mr. Thaddeus E. Frey
Livestock, Poultry, Grain &
Seed Division
Nat. Agric. Library Building
BELTSVILLE, Maryland 20705
U.S.A.

POSTBOX 22, 1600 AA ENKHUIZEN HOLLAND

27th, November 1981.

Subject: cauliflower application No. 8100087, Temporary Designation RS 1831

Dear mr. Frey,

In answer to your letter of 10th, November 1981, we can modify our application as follows:

- 1) Exhibit A.

 Please replace the statement 'RS 1831 (Twist) appears to be stable and uniform through multiplication...! by 'RS 1831 is uniform and stable through multiplication.
- 2) Thank you for your remark on the date of determination. Please change 1970 in 1976, when we started multiplication.
- 3) Please change the statement 'The heart leaves.....is reached' into:
 'The heartleaves of RS 1831 are still twisted in each other when full maturity of the curd is reached. Heartleaves of all other varieties are only twisted in each other till various stages before full maturity.

We hope this information is sufficient to process the application.

Yours sincerely,

ROYAL SLUIS

J.G. Timmerman Marketing dept.

· JGT/CDV

Al onze verkopen worden geacht te hebben plaats gehad op de algemene verkoopsvoorwaarden van longe prijscouranten, indien niet uitdrukkelijk anders is overeengekomen. Onze aanbiedingen zijn vrijblijvend. Overigens gelden de F.I.S.-(RUSPO) congoles.

Jeder Verkauf Wird Marilet statt of under zu haben zu den allgemeinen Verkaufsbeding nun unserei Katalog, insofern nicht ausdrücklich anders vereinbart. Unsers Angebote statt unverbindlich. Übrigens gelten die F.I.S.-(RUSPO) Bedingtinge

Toutes nos apres control de les comme ayant eu lieu aux conditions de vente de nos privoculos a moins que d'autres conditions n'aient été stipulées expresse par Nos offres s'entendent sans engagement. Du reste, les conditions de la 01.S. (MUSPO) sont valables.

All our sales are made subject to the terms and conditions as printed in our catalogues, unless otherwise agreed upon. Our offers are without engagement. Further F.I.S.-(RUSPO) conditions. We warrant that the seeds we sell will be, at the time of delivery, as described on the container within recognized tolerances. We give no other or further warranty, express or implied. We limit our liability on the foregoing warranty and its liability by reason of any other cause whatsoever to the amount of the purchase price of such seeds.

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons and clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED OMB NO. 40-R3822

INSTRUCTIONS: See Reverse,		Tab WARIETY NAME		has been received (5 U.S.C. 553).			
1a. TEMPORARY DESIGNATION OF VARIETY R 5 /83 / Twist JE4 81/0/3		m		FOR OFFICIAL USE ONLY PV NUMBER 8100087			
							2.
	Cauliflower	Brassica eleratea		4/2/81 FEE RECEIVED	11:00 P.M.		
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETE		500.00	4/2/81		
	Crucifers	1970 1976 114 811209		\$ 250.00	2/24/82		
6.	NAME OF APPLICANT(S)	7. ADDRESS (Street and No. or R.F.D. No.,		City, State, and ZIP	8. TELEPHONE AREA		
	Royal Sluis	Code) P.O. E	Box 22, 1600 AA		CODE AND NUMBER		
9.	IF THE NAMED APPLICANT IS NOT A P ORGANIZATION: (Corporation, partnersh		10. IF INCORPORAT DATE OF INCOR	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION		
12.	NAME AND MAILING ADDRESS OF APP ALL PAPERS: J.G. Timmerm				CATION AND RECEIVE		
13.	CHECK BOX BELOW FOR EACH ATTAC	HMENT SUBMITTED:	THE STATE OF THE S	* * * * * * * * * * * * * * * * * * *			
	X 13A. Exhibit A, Origin and Bre	eeding History of the	Variety (See Section	52 of the Plant Varie	ty Protection Act.)		
	VI						
	X 13B. Exhibit B, Novelty States	nent.					
	13B. Exhibit B, Novelty States 13C. Exhibit C, Objective Desc		y (Request form from	Plant Variety Protec	tion Office.)		
		cription of the Variet		Plant Variety Protec	tion Office.)		
14a.	X 13C. Exhibit C, Objective Desc	cription of the Variet scription of the Variet	ety.	AL ITES			
	13C. Exhibit C, Objective Desc 13D. Exhibit D, Additional De	cription of the Variet scription of the Variet AT SEED OF THIS VAR wer 14B and 14C below.	RIETY BE SOLD BY VA YES X 14c. IF "YES," TO 14	RIETY NAME ONLY A			
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6. CUI	RD:			8100087				
6. CO	no.							
1	1 = TIGHT 2 =	LOOSE	3 SHAPE: 1 = FLA					
2	1 = SMOOTH 2 =	KNOBBY						
1	1 = BRIGHT V COLOR: 3 = PURPLE-C	WHITE 2 = CREAMY, DULL V	1 = NO LEAVES IN	CURD 2 = LEAVES IN CURD				
7. DISE	ASE RESISTANCE: (0 =	Not Tested; 1 = Susc _ tible, 2 = Re	tant. Specify race if known)	10 to 30 0.00				
0	BLACK SPOT		0 CLUBROOT					
		ALPHAN TO THE THE						
0	PHYTOPHTHORA ROC	T ROT	1 WHITE BLISTER					
0	BLACK ROT		0 воттом вот					
0	CERCOSPORELLA LEA	AF SPOT	0 DOWNY MILDEW					
0	POWDERY MILDEW		0 VERTICILLUM WIL	T				
0	BLACK LEG		0 CAULIFLOWER MC	DSAIC				
0	RING SPOT		0 TURNIP YELLOW	MOSAIC				
0	YELLOWS		0 WIRE STEM					
0	OTHER (Specify)	POLITIME TO TON OF CHIEF A	Janes 1411.147%	THE RESERVE OF THE PERSON OF T				
0 OTH	ED DESISTANCE: (0 = N	Not Tested, 1 = Susceptible, 2 = Resi	int)					
2	"BUTTONING"	ot restea, i dusceptible, 2 most	0 "BLINDNESS"					
2	"RICEYNESS"		0 "WHIPTAIL"					
0	INSECT (Specify)		DEED NO.					
O INDI	CATE A VARIETY THA	T MOST CLOSELY RESEMBLES T	AT SUBMITTED:	Name of Carlotte				
a. INDI	CHARACTER	VARIETY	CHARACT	ER VARIETY				
MATUR	THE STATE OF THE PARTY OF THE P	The state of the s	PLANT COLOR	MINISTRAL PROPERTY OF THE PARTY				
MATURITY Dok Elgon ADAPTATION Dok Elgon		Dok Elgon	CURD SIZE	Dok Elgon Nimba Meda				
PLANT HABIT Dok Elgon		CURD SHAPE	Dok Elgon					
PLANT SIZE Flora Blanca		CURD COLOR	Nimba Meda					
REFER Nieuw		ope – World Crop Series, Leona	Hill.	Pontileto				
COMM	ENTS:	treat very flow the streatments	erie: aftitus variety toribe tori ter in exiber 10 in institut X o	tes helpik.				

FORM GR-470-30 (7-1-74)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
CAULIFLOWER

(Brassica olerac	ea var, botrytis)		
NAME OF APPLICANT(S)		VARIETY NAME OF	TEMPORARY DESIGNATION
Royal Sluis		Madon	184 820302
ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Code)		FOR OFF	CIAL USE ONLY
P.O. Box 22, 1600 AA ENKHUIZEN, The	e Netherlands	BYPO NUMBER	8100087
Place the appropriate number that describes the varietal character Place a zero in first box (e.s. 0 8 9 or 0 9) when number is	of this variety in t	he boxes below. or 9 or less.	
REGION OF ADAPTATION: (Where best adapted in the U.S.A.)	= NORTHEAST	4 = SOUTHEAST	5 = SOUTHWEST
2. SEASON: (Main crop)	chen seedles		
	= LATE WINTER -	EARLY SPRING	
	= LATE SUMMER -	- EARLY FALL	
是一种的一种,但是一种的一种,但是一种的一种的一种,但是一种的一种的一种。			AVERAL
3. MATURITY: (Days to 50% harvest)	DWILLEDS		
1 0 7 FROM TRANSPLANTS	2 1 NO. DA	YS HARVESTING PERI	OD
0 9 7 FROM DIRECT SEEDING	A STATE OF S		
OTHER REDISEARCH AS THE Text of Superpulse T = Manager of			
4. PLANT HEIGHT: (At harvest)			
2 4 CM. FROM SOIL LINE TO TOP OF CURD			
	1 = FAF	RLY ERFURT 2 = SI	JPER SNOWBALL A
0 3 CM. TALLER THAN	1	OWBALL Y	
0 3 CM. TALLER THAN	I (TCH AUTUMN GIANT	
CM. SHORTER THAN		HER (Specify)	
0 4 CM. SHORTER THAN	4) 3-011	HEN (opecify)	
5. LEAVES:		April a big	
2 5 TOTAL NUMBER	7 0 CM.	AVERAGE LENGTH A	MID-POINT OF PLANT
	THE PERSON NAMED IN		
	3 3 CM.	AVERAGE WIDTH AT	MID-POINT OF PLANT
1 = STRAIGHT MARGINS 2 = WAVY MARGINS	1 =	THIN VEINS 2 = T	HICK VEINS
1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE 3 = EQUALLY SESSILE AND PETIOLATE			
1 = LIGHT GREEN 2 = MEDIUM GREEN	1 =	UPRIGHT, EXPOSE CU	RD
3 COLOR: (Snowball No. 10)		INCURVED, PARTIAL	
3 = DARK GREEN 4 = BLUSH GREEN (November)	3 =	COMPETELY COVER O	CURD (Self blanching)
6. CURD:			
2 2 CM. DIAMETER	TI C CM	I. DEPTH	
2 2 CM. DIAMETER	1 0		